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1 Discovery of multi-level rules and exceptions from a distributed database   ◼

Rónán Páircéir, Sally McClean, Bryan Scotney
August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**
Publisher: ACM Press
Full text available: 🗎 pdf(132.32 KB)   Additional Information: full citation, references, index terms

Keywords: aggregates, distributed databases, exception discovery, multi-level statistical models, rule discovery, sufficient statistics

2 Research session: new applications: Hubble: an advanced dynamic folder technology for XML   ◼

Ning Li, Joshua Hui, Hui-I Hsiao, Kevin S. Beyer
August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**
Publisher: VLDB Endowment
Full text available: 🗎 pdf(422.35 KB)   Additional Information: full citation, abstract, references, index terms

A significant amount of information is stored in computer systems today, but people are struggling to manage their documents such that the information is easily found. XML is a de-facto standard for content publishing and data exchange. The proliferation of XML documents has created new challenges and opportunities for managing document collections. Existing technologies for automatically organizing document collections are either imprecise or based on only simple criteria. Since XML documents a ...

3 Brave new topics 1: multimedia challenges for planetary scale applications: IrisNet: an internet-scale architecture for multimedia sensors   ◼

Jason Campbell, Phillip B. Gibbons, Suman Nath, Padmanabhan Pillai, Srinivasan Seshan, Rahul Sukthankar
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: 🗎 pdf(1.33 MB)   Additional Information: full citation, abstract, references, index terms

Most current sensor network research explores the use of extremely simple sensors on small devices called motes and focuses on over-coming the resource constraints of these devices. In contrast, our research explores the challenges of multimedia sensors and is motivated by the fact that multimedia devices, such as cameras, are rapidly becoming inexpensive, yet their use in a sensor network presents a number of unique challenges.

For example, the data rates involved with multimedia sensors are or ...

Keywords: multimedia sensors, sensor networks, wide-area sensing infrastructure

4 Concise descriptions of subsets of structured sets

Alberto O. Mendelzon, Ken Q. Pu

June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: pdf(334.12 KB)   Additional Information: full citation, abstract, references, index terms

We study the problem of economical representation of subsets of structured sets, that is, sets equipped with a set cover. Given a structured set U, and a language L whose expressions define subsets of U, the problem of Minimum Description Length in L.(L-MDL) is: "given a subset V of U, find a shortest string in L that defines V".We show that the simple set cover is enough to model a number of realistic database structures. We focus o ...

5 INEX reports: The Wikipedia XML corpus

Ludovic Denoyer, Patrick Gallinari

June 2006 **ACM SIGIR Forum**, Volume 40 Issue 1

Publisher: ACM Press

Full text available: pdf(446.12 KB)   Additional Information: full citation, abstract, index terms

Wikipedia is a well known free content, multilingual encyclopedia written collaboratively by contributors around the world. Anybody can edit an article using a wiki markup language that offers a simplified alternative to HTML. This encyclopedia is composed of millions of articles in different languages.

6 Research articles and surveys: Analytical processing of XML documents: opportunities and challenges

Rajesh R. Bordawekar, Christian A. Lang

June 2005 **ACM SIGMOD Record**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(191.42 KB)   Additional Information: full citation, abstract, references, index terms

Online Analytical Processing (OLAP) has been a valuable tool for analyzing trends in business information. While the multi-dimensional cube model used by OLAP is ideal for analyzing structured business data, it is not suitable for representing and analyzing complex semi-structured data, such as, XML documents. Need for analyzing XML documents is gaining urgency as XML has become the language of choice for data representation across a wide range of application domains. This paper describes a prop ...

7 Web-enabled simulation technologies: web-enabled tools, languages, and applications: XML-based supply chain simulation modeling

Dean C. Chatfield, Terry P. Harrison, Jack C. Hayya

December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**

Publisher: Winter Simulation Conference

Full text available: pdf(263.31 KB)   Additional Information: full citation, abstract, references

We describe a different approach to using XML to support the simulation modeling of supply chains. Instead of using XML to specify the simulation constructs, as most previous approaches do, we utilize XML to describe the supply chain itself. The Supply Chain Modeling Language (SCML) is a general, reusable, platform and methodology independent standard for describing a supply chain's structure and logic. SCML is usable by analysts using many methodologies, including simulation. We describe a samp ...

8 Research sessions: new styles of XML: Approximate XML query answers ■

Neoklis Polyzotis, Minos Garofalakis, Yannis Ioannidis

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: 🗎 pdf(260.73 KB)   Additional Information: full citation, abstract, references

> The rapid adoption of XML as the standard for data representation and exchange foreshadows a massive increase in the amounts of XML data collected, maintained, and queried over the Internet or in large corporate data-stores. Inevitably, this will result in the development of on-line decision support systems, where users and analysts interactively explore large XML data sets through a declarative query interface (e.g., XQuery or XSLT). Given the importance of remaining interactive, such on-line s ...

9 Poster papers: XML retrieval: what about using contextual relevance? ■

Karen Sauvagnat, Lobna Hlaoua, Mohand Boughanem

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available: 🗎 pdf(307.98 KB)   Additional Information: full citation, abstract, references

> The aim of this study is to evaluate the impact of context to better identify relevant elements in XML retrieval. Context is represented here by clues on whole document relevance. We represent context according to different points of view: by introducing document dimension while computing terms weights, by using document relevance when evaluating elements relevance or by ranking elements on document relevance. Experiments were undertaken on INEX collection, and results showed the interest of con ...

Keywords: XML retrieval, contextual relevance, relevance propagation

10 Knowledge engineering tools and techniques: Modeling ontologies for robotic environments ■

Antonio Chella, Massimo Cossentino, Roberto Pirrone, Andrea Ruisi

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available: 🗎 pdf(203.73 KB)   Additional Information: full citation, abstract, references

> On the basis of a multiple abstraction levels specification process, we developed a representational model for environmental robotic knowledge through the definition of a set of ontologies using a multi perspective approach. A general ontological model for typical indoor environments has been first developed, followed by its specialization using an implementation perspective. Actual software implementation of the ontology has been obtained via a XML-based markup language, used to build a reposit ...

Keywords: multi agent systems, ontologies, robotics

11 Web-based simulation: SISCO: a supply chain simulation tool utilizing silk™ and XML ■

Dean C. Chatfield, Terry P. Harrison, Jack C. Hayya

December 2001 **Proceedings of the 33nd conference on Winter simulation**

Publisher: IEEE Computer Society

Full text available: 🗎 pdf(276.14 KB)   Additional Information: full citation, abstract, references, citings, index terms

> We discuss SISCO, the Simulator for Integrated Supply Chain Operations, a Java-based tool that simplifies supply chain simulation model development. SISCO maps supply chain descriptions stored in the XML-based Supply Chain Modeling Language (SCML) format to a set of supply chain "building blocks" developed with ThreadTec's Silk™ simulation classes.

The resulting system combines the ease of a visual supply chain simulator, the power and flexibility of a full object-oriented programming lang ...

12 A powerful and SQL-compatible data model and query language for OLAP

Dennis Pedersen, Karsten Riis, Torben Bach Pedersen

January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian database conference - Volume 5 ADC '02**, Volume 24 Issue 2

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: 🗎 pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we present the SQL*M* OLAP data model, formal algebra, and query language that, unlike current OLAP data models and languages, are both *powerful*, meaning that they support irregular dimension hierarchies, automatic aggregation of data, and correct aggregation of data, and *SQL-compatible,* allowing seamless integration with relational technology. We also consider the requirements to the data model posed by integration of OLAP data with external XML data. ...

Keywords: OLAP, data integration, data models, multidimensional databases, query languages

13 Research sessions: new styles of XML: Colorful XML: one hierarchy isn't enough

H. V. Jagadish, Laks V. S. Lakshmanan, Monica Scannapieco, Divesh Srivastava, Nuwee Wiwatwattana

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: 🗎 pdf(339.49 KB)   Additional Information: full citation, abstract, references

XML has a tree-structured data model, which is used to uniformly represent structured as well as semi-structured data, and also enable concise query specification in XQuery, via the use of its XPath (twig) patterns. This in turn can leverage the recently developed technology of structural join algorithms to evaluate the query efficiently. In this paper, we identify a fundamental tension in XML data modeling: (i) data represented as deep trees (which can make effective use of twig patterns) are o ...

14 Extending TPC-W to allow for fine grained workload specification

Christian Kurz, Carlos Guerrero, Günter Haring

July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**

Publisher: ACM Press

Full text available: 🗎 pdf(160.82 KB)   Additional Information: full citation, abstract, references

This paper presents a method to characterize workload from a web server logfile from a user perspective. The data obtained in this process is used to create workload for the TPC-W benchmark.

Keywords: benchmark, capacity planning, user modeling, web performance

15 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: 🗎 pdf(351.86 KB)   Additional Information: full citation, abstract, citings, index terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import

or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

16 Web services and performance evaluation: A fine-grained replacement strategy for XML query cache
Li Chen, Song Wang, Elizabeth Cash, Burke Ryder, Ian Hobbs, Elke A. Rundensteiner
November 2002 **Proceedings of the 4th international workshop on Web information and data management**
Publisher: ACM Press

Full text available: pdf(225.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

Caching popular queries and reusing results of previously computed queries is one important query optimization technique, especially in modern distributed environments such as the WWW. Based on the recent proliferation of XML data and the emergence of the XQuery language, we are thus developing a query- based caching system for XQuery queries, called ACE-XQ. ACE-XQ applies innovative query containment and rewriting strategies to answer incoming user queries based on the cached XQueries, whenever ...

Keywords: XML, XQuery, cache replacement strategy, query containment, query rewriting, semantic caching

17 Moving up the food chain: supporting e-commerce applications on databases
Anant Jhingran
December 2000 **ACM SIGMOD Record**, Volume 29 Issue 4
Publisher: ACM Press

Full text available: pdf(447.48 KB)   Additional Information: full citation, abstract, citings, index terms

Database systems have enjoyed a tremendous market because they have served many applications really well -- transaction processing in the beginning, and then decision support. Today, with over 200% cumulative growth rate in certain segments of E-Commerce, it is clear that this new class of applications will be a strong driver for databases to grow, commercially, as well as from a Research perspective. This paper outlines some of the issues that I have learnt in dealing with E-Commerce applicatio ...

18 Free-link topology navigation on statistical table objects: metadata schema and user interface
Xiangming Mu, Gary Marchionini
May 2003 **Proceedings of the 2003 annual national conference on Digital government research dg.o '03**
Publisher: Digital Government Research Center

Full text available: pdf(45.90 KB)   Additional Information: full citation, abstract, references

A table object, defined and described in XML, is treated as the basic unit in a free-link topology that enables multiple inheritances for each node. In this paper, a novel table navigation system called TableHunter is introduced. Each table object is presented in the TableHunter as a node of a map structure, and supports a context+focus view.

19 Scaling up the semantic web: On labeling schemes for the semantic web
Vassilis Christophides, Dimitris Plexousakis, Michel Scholl, Sotirios Tourtounis
May 2003 **Proceedings of the 12th international conference on World Wide Web**
Publisher: ACM Press

Full text available: pdf(294.32 KB)   Additional Information: full citation, abstract, references, citings, index

This paper focuses on the optimization of the navigation through voluminous subsumption hierarchies of topics employed by Portal Catalogs like Netscape Open Directory (ODP). We advocate for the use of labeling schemes for modeling these hierarchies in order to efficiently answer queries such as subsumption check, descendants, ancestors or nearest common ancestor, which usually require costly transitive closure computations. We first give a qualitative comparison of three main families of schemes ...

20 Fast algorithm for creating space efficient dispatching tables with application to multi-dispatching

Yoav Zibin, Joseph Yossi Gil

November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11

Publisher: ACM Press

Full text available: pdf(312.23 KB)   Additional Information: full citation, abstract, references, citings

The dispatching problem can be solved very efficiently in the single-inheritance~(SI) setting. In this paper we show how to extend one such solution to the multiple-inheritance~(MI) setting. This generalization comes with an increase to the space requirement by a small factor of κ This factor can be thought of as a metric of the complexity of the topology of the inheritance hierarchy.On a data set of~35 hierarchies totaling some~64 thousand types, our dispatching data structure, based on a ...

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PO'Neil, EO'Neil, S Pal, I Cseri, G Schaller, N ... - Proceedings of the 2004 ACM SIGMOD international conference ..., 2004 -
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... locate nodes on all XPATH axes of **hierarchy** and precedence ... fan-out is very common
with the **XML** trees of ... possible to base the scheme on **statistics** of trees for a ...
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S Alexaki, V Christophides, G Karvounarakis, D ... - 2nd International Workshop on the Semantic Web, 2001 - 139.91.183.30
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V Josifovski, P Schwarz - ieeexplore.ieee.org
... to choose a good join order are derived from **statistics** about table ... the nickname
that corresponds to the © customer elements of the **XML hierarchy** of Figure 1 ...
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Q Li, B Moon - Proceedings of the 27th International Conference on Very ..., 2001 - gdit.iiit.net
... This numbering scheme quickly determines the ancestor-descendant relationship
between ele- ments in the **hierarchy** of **XML** data. We ...
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L Denoyer, P Gallinari - ACM SIGIR Forum, 2006 - portal.acm.org
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M Smith, A Khotanzad - Proceedings of the International Conference on Information ..., 2005 - doi.ieeecomputersociety.org

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2. **Statistics** are extracted from each color cluster – the mean, standard ...

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... input XPATH of a stored function may be an on-demand stored query invocation; in other words, an on-demand stored query higher in the **XML hierarchy** may process ...

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